

1 **WHAT IS CLAIMED IS:**

2 1. A three dimensional image presenting device comprising:

3 a three dimensional image presenting plate;

4 multiple three dimensional image presenting units defined in the three

5 dimensional image presenting plate, wherein each three dimensional image presenting

6 unit is a space defined in the three dimensional image presenting plate and has a convex

7 end; and

8 multiple optical fibers each having a distal end corresponding to one of the three

9 dimensional image presenting units, such that an image displayed by the three

10 dimensional image presenting plate is apparently three dimensional due to the convex

11 end of the space.

12 2. The device as claimed in claim 1, wherein the distal end of each optical fiber

13 is located at a joint between the space and the optical fiber.

14 3. The device as claimed in claim 2, wherein each three dimensional image

15 presenting unit has a longitudinal length and a latitudinal length which is larger than the

16 longitudinal length.

17 4. The device as claimed in claim 1, wherein the three dimensional image

18 presenting plate has an arcuate projection and the convex end of the space is defined in

19 the arcuate projection, each one of the optical fibers is received in the corresponding

20 three dimensional image presenting units and the distal end of the optical fiber is located

21 at the joint between the space and the corresponding optical fiber.

22 5. The device as claimed in claim 2, wherein the three dimensional image

23 presenting plate has an arcuate projection and the convex end of the space is defined in

24 the arcuate projection, each one of the optical fibers is received in the corresponding

25 three dimensional image presenting units.

1 6. The device as claimed in claim 3, wherein the three dimensional image
2 presenting plate has an arcuate projection and the convex end of the space is defined in
3 the arcuate projection, each one of the optical fibers is received in the corresponding
4 three dimensional image presenting units.

5 7. The device as claimed in claim 2, wherein the three dimensional image
6 presenting plate has an arcuate projection and the convex end of the space is defined in
7 the three dimensional image presenting plate.

8 8. The device as claimed in claim 1, wherein the space has two convex ends and
9 the distal end of the optical fiber engages with one of the two convex ends, the three
10 dimensional image presenting plate is composed of two layers, one layer has a mounting
11 seat to receive therein the optical fiber and the other layer has an optical lens formed
12 therein, the optical lens corresponds to the two convex ends of the space and the distal
13 end of the optical fiber.

14 9. The device as claimed in claim 2, wherein the space has two convex ends and
15 the distal end of the optical fiber engages with one of the two convex ends, the three
16 dimensional image presenting plate is composed of two layers, one layer has a mounting
17 seat to receive therein the optical fiber and the other layer has an optical lens formed
18 therein, the optical lens corresponds to the two convex ends of the space and the distal
19 end of the optical fiber.

20 10. The device as claimed in claim 9, wherein the optical lens is a convex lens.

21 11. The device as claimed in claim 9, wherein the optical lens is a concave lens.

22 12. The device as claimed in claim 1, wherein the space has a convex end and a
23 concave end, the distal end of the optical fiber engages with the convex end, the three
24 dimensional image presenting plate is composed of two layers, one layer has a mounting
25 seat to receive therein the optical fiber and the other layer has an optical lens formed

1 therein, the optical lens corresponds to the two convex ends of the space and the distal
2 end of the optical fiber.

3 13. The device as claimed in claim 2, wherein the space has a convex end and a
4 concave end, the distal end of the optical fiber engages with the convex end, the three
5 dimensional image presenting plate is composed of two layers, one layer has a mounting
6 seat to receive therein the optical fiber and the other layer has an optical lens formed
7 therein, the optical lens corresponds to the two convex ends of the space and the distal
8 end of the optical fiber.

9 14. The device as claimed in claim 1, wherein the three dimensional image
10 presenting plate is composed of two layers, one layer is provided with a mounting seat to
11 receive therein the optical fiber and the arcuate end of the space is defined in the other
12 layer of the three dimensional image presenting plate.

13 15. The device as claimed in claim 14, a coating is applied in an inner face of the
14 space.

15 16. The device as claimed in claim 2, wherein the space is conical.

16 17. The device as claimed in claim 15, wherein the space is conical.

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